

Figure 1
L. P. A.

10

See 31021 copy
for details
dealing with



124

324

12



102

104

106

108

110

150

a.

F1= Prob Set F2= Prob F3= [a] b F4 Trans F5 ? F6 F7 Tools

P1: Solve for x

$x^2 - 3 \cdot x = 4$

MAIN RAD AUTO FUNC 1/1

b.

SELECT TRANSFORMATION

$x^2 - 3 \cdot x = 4$

1: add ? to each side
2: multiply each side by ?
3: switch sides
4: factor left-hand side
5: complete the square
6: enter subexpr selection

TYPE OR USE \rightarrow + [ENTER] OR [ESC]

c.

F1= Prob Set F2= Prob F3= [a] b F4 Trans F5 ? F6 F7 Tools

add ? to each side

$x^2 - 3 \cdot x = 4$

? = -4

Enter=OK ESC=CANCEL

MAIN RAD AUTO FUNC 1/1

d.

F1= Prob Set F2= Prob F3= [a] b F4 Trans F5 ? F6 F7 Tools

P1: Solve for x

$x^2 - 3 \cdot x = 4$

add -4 to each side

Press <ENTER>

MAIN RAD AUTO FUNC 1/1

e.

F1= Prob Set F2= Prob F3= [a] b F4 Trans F5 ? F6 F7 Tools

P1: Solve for x

$x^2 - 3 \cdot x = 4$

add -4 to each side

$x^2 - 3 \cdot x + -4 = 4 + -4$

MAIN RAD AUTO FUNC 1/1

f.

F1= Prob Set F2= Prob F3= [a] b F4 Trans F5 ? F6 F7 Tools

P1: Solve for x

$x^2 - 3 \cdot x = 4$

add -4 to each side

$x^2 - 3 \cdot x + -4 = 4 + -4$

simplify

Press <ENTER>

MAIN RAD AUTO FUNC 1/1

g.

F1= Prob Set F2= Prob F3= [a] b F4 Trans F5 ? F6 F7 Tools

P1: Solve for x

$x^2 - 3 \cdot x = 4$

add -4 to each side

$x^2 - 3 \cdot x + -4 = 4 + -4$

simplify

$x^2 - 3 \cdot x - 4 = 0$

MAIN RAD AUTO FUNC 1/1

h.

SELECT TRANSFORMATION

$x^2 - 3 \cdot x - 4 = 0$

1: add ? to each side
2: multiply each side by ?
3: switch sides
4: factor left-hand side
5: quadratic formula
6: enter subexpr selection

MAIN RAD AUTO FUNC 1/1

i.

F1= Prob Set F2= Prob F3= [a] b F4 Trans F5 ? F6 F7 Tools

P1: Solve for x

$x^2 - 3 \cdot x + -4 = 4 + -4$

simplify

$x^2 - 3 \cdot x - 4 = 0$

factor left-hand side

$(x-4) \cdot (x+1) = 0$

MAIN RAD AUTO FUNC 1/1

j.

SELECT TRANSFORMATION

$(x-4) \cdot (x+1) = 0$

1: add ? to each side
2: multiply each side by ?
3: switch sides
4: factor left-hand side
5: distribute multiplication
6: $(A+B) \cdot C \rightarrow A \cdot C + B \cdot C$
7: $A \cdot (B+C) \rightarrow A \cdot B + A \cdot C$

MAIN RAD AUTO FUNC 1/1

k.

F1= Prob Set F2= Prob F3= [a] b F4 Trans F5 ? F6 F7 Tools

P1: Solve for x

$x^2 - 3 \cdot x - 4 = 0$

factor left-hand side

$(x-4) \cdot (x+1) = 0$

$A \cdot B = 0 \rightarrow A = 0 \text{ or } B = 0$

$x-4=0 \text{ or } x+1=0$

MAIN RAD AUTO FUNC 1/1

l.

SELECT TRANSFORMATION

$x-4=0 \text{ or } x+1=0$

1: solve linear equation
2: enter subexpr selection

TYPE OR USE \rightarrow + [ENTER] OR [ESC]

m.

F1= Prob Set F2= Prob F3= [a] b F4 Trans F5 ? F6 F7 Tools

P1: Solve for x

$(x-4) \cdot (x+1) = 0$

$A \cdot B = 0 \rightarrow A = 0 \text{ or } B = 0$

$x-4=0 \text{ or } x+1=0$

solve linear equation

$x=4 \text{ or } x=-1$

MAIN RAD AUTO FUNC 1/1

n.

F1= Prob Set F2= Prob F3= [a] b F4 Trans F5 ? F6 F7 Tools

P1: Solve for x

$x^2 - 3 \cdot x - 4 = 0$

quadratic formula

$x = \frac{-3 \pm \sqrt{(-3)^2 - 4 \cdot 1 \cdot -4}}{2 \cdot 1}$

MAIN RAD AUTO FUNC 1/1

o.

F1= Prob Set F2= Prob F3= [a] b F4 Trans F5 ? F6 F7 Tools

P1: Solve for x

quadratic formula

$x = \frac{-3 \pm \sqrt{(-3)^2 - 4 \cdot 1 \cdot -4}}{2 \cdot 1}$

simplify

$x=4 \text{ or } x=-1$

MAIN RAD AUTO FUNC 1/1

Figure 3

